LIGHTHOUSE
WORLDWIDE SOLUTIONS

REMOTE
2014, 3014, 5014

AIRBORNE PARTICLE COUNTERS

Incorporating the latest in laser optical particle counting technology, Lighthouse designed the **REMOTE 2014**, **3014** and **5014** for continuous trouble-free operation.

With a sensitivity of 0.2, 0.3 and 0.5 micron, respectively, at a flow rate of 0.1 CFM (2.83 LPM), the **REMOTE 2014**, **3014** and **5014** provide real-time continuous data collection at a cost-effective price per point.

Using an external vacuum source, the compact **REMOTE 2014**, **3014** and **5014** provide versatile mounting options and can be installed where space is at a premium. The optional T/RH Probe can be mounted up to eight feet from the instrument by using an optional extension cable.

The **REMOTE 2014**, **3014** and **5014** integrate seamlessly into large facility monitoring and management systems and transfer up to 4 channels of simultaneous particle count and environmental data using RS-485 Modbus.

With the optional Network or Wireless Adapter, the **REMOTE 2014**, **3014** or **5014** can be connected to TCP/IP LANs.

Designed and built by Lighthouse - a name you can trust.

Lighthouse is an ISO 9001:2000 Registered Company

www.golighthouse.com

Features:

★ REMOTE 2014: 0.2 - 2µm
★ REMOTE 3014: 0.3 - 25µm
★ REMOTE 5014: 0.5 - 25µm
★ 0.1 CFM (2.83 LPM) Flow Rate
★ Up to 4 Channels of Simultaneous Data
★ All Models Meet JIS Standards
★ Compact Size
★ Stainless Steel Enclosure
★ Status Indicators
★ External Alarm Output
★ Optional Temperature/Relative Humidity Probe
★ RS-485 Modbus Output
★ Facility Monitoring Systems Interface
★ Versatile Mounting Options
★ External Vacuum Source
★ Designed for Reliability

Benefits:

★ 2 Year Warranty
★ Installs in Limited Space
★ Cost Effective Price per Point
★ Proven Data Integrity
★ Proven Reliability
★ Continuous Real-Time Data
★ Easy System Integration
★ International Support
★ Low Cost of Ownership

Optional T/RH Probe

Direct Mount Isokinetic Probe

RJ45 Connector

Status LEDs

Alarm Relay

Flow Status Monitoring

Specifications:

	2014	3014	5014
Size Range:	0.2 - 2.0µm	0.3 - 25.0µm	0.5 - 25.0µm
Channel Sizes:	Standard: 0.2, 0.3µm Standard: 0.2, 0.5µm Optional: 0.2, 0.3, 0.5, 1.0µm Optional: 0.2, 0.3, 0.5, 2.0µm	Standard: 0.3, 0.5µm Standard: 0.3, 1.0µm Standard: 0.3, 3.0µm Optional: 0.3, 0.5, 1.0, 5.0µm	Standard: 0.5, 5.0µm Optional: 0.5, 1.0, 5.0, 10.0µm Optional: 0.5, 5.0, 10.0, 25.0µm
Counting Efficiency:	50% @ 0.2µm; 100% for particles > 0.3µm (per JIS)	50% @ 0.3µm; 100% for particles > 0.45µm (per JIS)	50% @ 0.5µm; 100% for particles > 0.75µm (per JIS)

Additional Channel Sizes are available. Please contact your Lighthouse Sales Engineer for more information about these options.

Flow Rate:	0.1 CFM (2.83 LPM)
Laser Source:	Laser Diode
Zero Count Level:	<1 count / 5 minutes (per JIS)
Concentration Limits:	2,000,000 Particles / ft^3 @ 5% Coincidence Loss
Calibration:	NIST Traceable
Vacuum Requirements:	External Vacuum >18" (45.72) of Hg
Air Flow:	Internally Monitored
Communication Modes:	RS-485 MODBUS
LED Indicators:	Power, Flow, Service, Sampling
Data Storage:	250 Samples
Connector:	RJ45
Supporting Software:	*LMS XChange, Lighthouse Monitoring System*; *LMS Express*; *Express RT* and *RT+*; *LMSNet*
Environmental Sensors:	(Optional) Temperature/Relative Humidity Probe 32 - 122F (0-50C)+/-1F (0.5C); 0 - 100% RH +/-2%
External Alarm Output:	Normally Open Dry Contact Rated 0-60 V AC/DC 1 Amp
Enclosure:	Stainless Steel
Power:	24 VDC
Dimensions:	1.7"(l) x 4.2"(w) x 3"(h) [4.3 x 10.7 x 7.6 cm]
Weight:	0.97 lb (0.44 kg)

Environmental Conditions:

Operating: 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing
Storage: 14°F to 122°F (-10°C to 50°C) / Up to 98% non-condensing
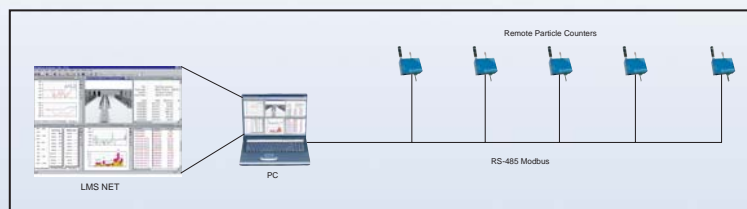
Accessories:

Included:

Operating Manual on CD

Optional:

Printed Operating Manual; RS-485 Hub with Power Supply; RS-232 Communication Cable and Adapter; USB to Serial Port Converter; *Network Adapter*; *Wireless Network Adapter*; Isokinetic Sampling Probes; Vacuum Tubing; Sample Tubing; Data Cable; Purge Filter; Power Supply; Temperature/ Relative Humidity Probe; 8' T/RH Probe Extension Cable; REMOTE Mounting Bracket; *LMS XChange*, *LMS Express*; *Express RT* and *RT+, LMSNet* software; RS-485 Communication Kit; High-Pressure Diffuser (not available for 2014).

SAMPLE SYSTEM INTEGRATION

Manufactured by:

LIGHTHOUSE
WORLDWIDE SOLUTIONS

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